Item	Description	Manufacturer/Model
AIDA/ACI II IAAAAAA		ADCO 4450
AIR/VACUUM VALVE 2-INCH		APCO 145C VAL MATIC 202
Z-INCH		
		CRISPIN UL20
		Vent-O-Mat Model 050RBX4021
AIR/VACUUM VALVE	Air-Vaccum Valve Assembly. See Standard Dwg W7	Pipeline Products VCAS 1830 Tan
ABOVE GRADE	See "Valve Box" for below grade components	
ENCLOSURE		
ANGLE METER STOPS	1" Bronze Angle Meter Stop (Ball Valve) with 90 Degree Lock	Ford BA43-444WQ NL
1-INCH	Wing, Compression x Outlet Swivel Meter Nut	Jones E-1963WSG
Compression x Meter		Mueller B-24258 N
Nut		
ANGLE METER STOPS	1" Bronze Angle Meter Stop (Ball Valve) with 90 Degree Lock	Ford BA23-444W NL
1-INCH	Wing, Flare x Outlet Swivel Meter Nut	Jones E-1964W
Flare x Meter Nut		Mueller B-24255 N
ANGLE METER STOPS	2" Bronze Angle Meter Stop (Ball Valve) with 90 Degree Lock	Ford BFA43-777WQ NL
2-INCH	Wing, Compression x Outlet Meter Flange	Jones E-1975WSG
Compression x Meter	5, 1	Mueller B-24276 N
Nut		-
ANGLE METER STOPS	2" Bronze Angle Meter Stop (Ball Valve) with 90 Degree Lock	Ford BFA23-777W NL
2-INCH	Wing, Flare x Outlet Meter Flange	Jones E-1973W
Flare x Meter Nut	_	Mueller B-24277 N
BACKFLOW	Reduced Pressure Principal Type Assemblies; Double Check	List of Approved Backflow Prevention
PREVENTER (R.P.)	Valve Detector Assemblies for Fire Sprinkler Systems	Assemblies by the State of California,
	, ,	Department of Health Services most
		recent version
CORPORATION STOP.	Bronze Flare x MIP Thread Ball Valve (T-Head only) 1"and 2" Full	Ford FB700 NL, Jones E-1929,
FLARE X MIP	Opening	Mueller B-25025 N
CORPORATION STOP,	Bronze Compression x MIP Thread Ball Valve (T-Head only)	Ford FB1100Q NL, Jones E-1957G,
COMPRESSION X MIP	1"and 2" Full Opening	Mueller B-25028 N
CORPORATION STOP,	Bronze MIP x MIP Thread Ball Valve (T-Head only), 1" and 2" Full	· ·
MIP X MIP	Opening	Jones E-1943
		Mueller B-2969 N (2")
BOLTS AND NUTS, 304	Hex-Head Machine, ASTM A193, Grade B8 Bolts and ASTM	Mueller B-20013 N (1")
SS	A194, Grade 8 Nuts	
	Hex-Head Machine, ASTM A193, Grade B8M Bolts and ASTM	
SS	A194, Grade 8M Nuts	
BOLTS AND NUTS,	Hex-Head Machine, Cadmium/Zinc Plated, ASTM A307, Grade A	
A307	Bolts and A307 2H Heavy Hex Nuts	
BONDING AGENT,	Epoxy Resin Based Bonding Agent for Bonding New Mortar or	Sika Sikadur 32 Hi-Mod
EPOXY	Concrete to existing concrete	
BUSHING, INSULATING		Calpico
	1-1/2" x 1", 2-1/2" x 2"	Corrosion Control Products
CASING END SEAL	1/4" Thick Styrene Butadiene Rubber Sheet End Seal. Use 1"	F.H.Mahoney
CASING END SEAL	Wide Stainless Steel Bands. Zippered End Seals with Stainless	Advanced Products & Sys.
	Steel Bands may also be used.	Cascade Calpico
	Totooi Danas may also be useu.	Pipeline Seal & Insulator
		i ipomio ocai a modiatoi
		Powerseal
		Powerseal Raychem
CASING SPACER	Stainless Steel Casing Spacer, Center Restrained Position Type	Raychem
CASING SPACER	Stainless Steel Casing Spacer, Center Restrained, Position Type with PVC Liner and Non-metallic Anti-friction Runners	Raychem Advanced Products & Sys.
CASING SPACER	Stainless Steel Casing Spacer, Center Restrained, Position Type with PVC Liner and Non-metallic Anti-friction Runners	Raychem Advanced Products & Sys. Cascade
CASING SPACER	9 1 7	Raychem Advanced Products & Sys. Cascade Calpico
CASING SPACER	9 1 7	Raychem Advanced Products & Sys. Cascade
CASING SPACER	9 1 7	Raychem Advanced Products & Sys. Cascade Calpico Pipeline Seal & Insulator
CASING SPACER CATHODIC TEST	9 1 7	Raychem Advanced Products & Sys. Cascade Calpico Pipeline Seal & Insulator Powerseal
	with PVC Liner and Non-metallic Anti-friction Runners	Raychem Advanced Products & Sys. Cascade Calpico Pipeline Seal & Insulator Powerseal Raychem
CATHODIC TEST	with PVC Liner and Non-metallic Anti-friction Runners 25.4 Kg (54 lbs) Concrete Body with 5.4 Kg (12 lb) Ductile Iron Lid	Raychem Advanced Products & Sys. Cascade Calpico Pipeline Seal & Insulator Powerseal Raychem
CATHODIC TEST	with PVC Liner and Non-metallic Anti-friction Runners 25.4 Kg (54 lbs) Concrete Body with 5.4 Kg (12 lb) Ductile Iron Lid and Lid Ring. "CP TEST" shall be cast into the Lid in 25mm (1")	Raychem Advanced Products & Sys. Cascade Calpico Pipeline Seal & Insulator Powerseal Raychem

Item	Description	Manufacturer/Model
CHLORINE	Liquid (Gas) or Sodium Hypochlorite Solution. See Section 15040	mariaractarer/moder
CHECKINE	Liquid (Gas) of Sociality Typochionic Solution. See Section 13040	
COATING, MASTIC	Cold applied Coal Tar or Epoxy based single component, self-	Carboline Bitumastic 50
	priming, heavy-duty protective exterior coating for buried concrete	Devoe Devtar 5A
		Polykem 938
		Tnemec HB Tnemecol
		46-465, HB Tneme-Tar
		46H-413
COATING,	Epoxy Resin Based Cemetous Trowel Grade protective	Sika Top Seal 107
WATERPROOF	waterproofing for concrete	STO CR 241
COUPLING, C900 PVC	4" through 12" Solid PVC for obtaining deflection only.	Certainteed Vinyl Iron HD
DEFLECTION		0 115 11 115
COUPLING, C900 PVC	4" through 12" Solid PVC for closure or repair	Certainteed Vinyl Iron HD
CLOSURE OR REPAIR		
COLIDLING COOF DVC	10" through 20" Calid DVC for Clasure Deflection or Denair	IPEX
COUPLING, C905 PVC	16" through 36" Solid PVC for Closure, Deflection or Repair	
CLOSURE, DEFLECTION OR		Nyloiplast America
REPAIR		Septer
	Use for Above Ground DI or Steel Pipe 100mm (4") or larger	Grinnell #7001
COUPLING, GROOVED	Ose for Above Ground Dr or Steel Fipe Tourilli (4) or larger	Tyler 500
		Vitaulic #44, #77
COUPLING, STRAIGHT	4" and Larger Steel or Ductile Iron Construction, Slip x Slip, Epoxy	APAC 301
FLEXIBLE	Coated with 304 or 316 Stainless Steel Bolts and Nuts. For use	Ford FC1
LEXIBLE	on AC, PVC, DI, or Steel Pipe	Powerseal 3501, 3538
	on Ac, 1 vc, bi, or steer ipe	Romac 501
		Smith-Blair 411
		Officer Blair 411
COUPLING,	4" and Larger, Steel or Ductile Iron Construction, Slip x Slip,	APAC 311, 313
, , , , , , , , , , , , , , , , , , ,	Epoxy Coated with 304 or 316 Stainless Steel Bolts and Nuts. For	
TRANSITION I LEXIBLE	use on AC PVC, DI or Steel Pipe	Ford FC2A
	disc on No 1 vo, bi or oteer ipe	Powerseal 3501, 3538
		Romac 501
		Smith-Blair 413
		Mueller Maxifit
CUSTOMER SIDE	3/4" and 1" Bronze Customer Shut-off (Ball Valve), Inlet Swivel	Ford B13-332W w/HT34
SHUT-OFF VALVE	Meter Nut x Outlet FIP Thread, Lockable Tabs, with Lever Handle	B13-444W w/HT34
		Jones J-1908W
		Mueller B-24351
CUSTOMER SIDE	2" Bronze Customer Shut-off (Ball Valve), Inlet Meter Flange x	BF13-777W w/HB-67S
SHUT-OFF VALVE	Outlet FIP Thread, Lockable Tabs, with Lever Handle	Jones J-1913W
		Mueller B-24337
ELL, BURY, DUCTILE	6" Ductile Iron Bury Ells, Long Radius, Flg x MJ/PO	Clow
IRON	(Use of Short Radius Bury Ells with District Engineer Approval	South Bay Foundry
	Only)	
EPOXY ADHESIVE	High-Modulus, Low Vicosity, Epoxy Resin Based Adhesive	Sika Sikadur 31, Sikadur 35
	suitable for Grouting Bolts or Dowels	
EXPANSION JOINT	For Water Pipeline Bridge Crossings	APAC 703
		Dresser 63
		Powrseal 3563
L		Smith-Blair 611, 612
FIRE HYDRANT	Ductile or Cast Iron Spool with Integrally Cast Flanges and	
SPOOL, DUCTILE OR	Machined or Cast Exterior Grooves. Spools 12" or longer shall	
CAST IRON, FLANGED	have grooves 3" from each Flange. Spools shorter than 2" shall	
	have one groove centered between the Flanges. Grooves shall be	
	3/16" deep, <u>+</u> 1/16" and 1/4" wide, <u>+</u> 1/16", 6 Holed	
FIDE LIVED AND	CII Chandard 450 DCI Wat Daniel British 51	Claur 2050 2005
FIRE HYDRANT	6" Standard 150 PSI Wet Barrel Bronze Fire Hydrants with Six-	Clow 2050, 2065
	Hole Bolt Pattern. 4" x 2.5" or 4" x 4" x 2.5" Outlets	Jones J3700, J3775
FIRE HYDRANT, 200	Project Specification Submittal Required	
PSI or Higher	1 Toject Specification Submittal Required	
FITTING, DUCTILE	Flanged, Mechanical, Joint or Push-on Tees, Bends, Crosses,	Bachman
IRON	Recucers, Adapters, etc., for Water Lines 4" and larger.	Griffin
	Manufactured per AWWA C100, C111, C153. Double Cement	Nappco/Sigma
	Mortar Lined.	Pipeline Components
	(SSB Fittings will not be permitted on C905 Pipe.)	Star
	(1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Tyler
	<u>l</u>	1.1

Item	Description	Manufacturer/Model
FITTING, GROOVED	Grooved ductile Iron Fittings for Grooved end Pipes, 4" through	Grinnell
	24"	TylerG-B
		Victaulic
FITTING,	May be used with or in lieu of thrust blocks with approval of	Romac-GripRing
PIPE RESTRAINT	District Engineer	Star Pipe-PVC Ring Lock Series 3500
		UniFlange - 1300-C
GASKET	1/8" Thick Full Face or Ring, Aramid Fiber Bound with Nitrile. No	Calpico
	Asbestos Content	Garlock 3000
		Johns-Manville
		Klinger 4401
		Tripac 5000
GASKET, JOINT RESTRAINT	Rubber Ring Type with Stainless Steel Locking Segments Vulcanized into the Gasket. Fur use on PVC Carrier and Casing Pipes.	US Pipe Field Lok 350
GASKET, RUBBER GASOLINE RESISTANT	Gasoline Resistant Pipe Gaskets for Water Mains	Newby
GASKET, RUBBER	3mm (1/8") Thick, Rubber Ring Type, 1.72 Mpa (250 PSI)	Calpico
	Maximum. For 100mm (4") through 900mm (36" Pipe Flanges	Johns-Manville
KIIVO	limaximum. For roomim (4) through 900mm (50 Tipe Flanges	US Pipe
GREASE	For Bolt Corrosion Protection on Buried Bolts, NO-OX-ID Type	Sanchem NO-OX-ID
ONLAGE	To both controller intection on bulled boils, NO-OA-ID Type	Dearborn Chemical
GROUT	Non-Shrink Cement Based Construction Grout for Crack Repair,	Sika Sikagrout 212
CROOT	Flooring Mortar, Dowel Grouting, Crack Sealing and General	STO Epoxy Binder CR633
	Binding	STO Epoxy Gel CR635
		STO N-S Grout CR732
JOINT RESTRAINT	Only where Concrete Thrust Restraint is not possible. Prior	01014 0 01001 014702
ASSEMBLY	approval of District Engineer is required	
JOINT SEALING	For use on Pre-cast Vault and Manhole in Grooved Joints	Quickset Joint Sealing
	between sections	Compound
LUBRICANT, PIPE	Rubber Gasket Pipe Lubricant for use on PVC or ductile Iron Pipe	Whitlam Blue Lube
GASKET	Joints, NSF Listing required.	
METER	Supplied by CMWD	
METER BOX	12" x 20" x 12"Polymer Meter Box and Cover for 1" Water	Amorcast A6000485
1" SERVICE	Services with meters 1" or smaller.	Cover A6000484
	Cover color:	Lid, Drop In A6000487
	Gray for Potable Water Use	
	Purple Lids for Recycled Water Use	
METER BOX	17" x 30" x 12" Polymer Meter box with 2-Piece Lid for 2" Water	Amorcast A6001640PC-12
2" SERVICE	Services with meter larger than 1" and Blowoff Assemblies	Cover A6001643
	Cover Color:	Lid, Drop In A6000482
	Gray for Potable Water Use	
	Purple Lids for Recycled Water Use	
METER BOX	Gray for Potable Water Use	Brooks Model No.37 with Traffic Rated
1" SERVICE	Purple Lids for Recycled Water Use	Lid
(Exposed to Traffic		
Il nade)		
Loads)		
METER BOX	Gray for Potable Water Use	Brooks Model No.66 with Traffic Rated
METER BOX 2" SERVICE	Gray for Potable Water Use Purple Lids for Recycled Water Use	Brooks Model No.66 with Traffic Rated Lid
METER BOX 2" SERVICE (Exposed to Traffic		
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination		
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg		
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7)	Purple Lids for Recycled Water Use	Lid
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7)		Lid Ford CF Series
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7)	Purple Lids for Recycled Water Use	Lid Ford CF Series Jones J129
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes	Ford CF Series Jones J129 A.Y.McDonald 610F
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7)	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE MORTAR, REPAIR	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength Valve Box Lids	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740 Frazee Traffic Line and Marking Paint
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE MORTAR, REPAIR PAINT	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength Valve Box Lids Prime Coat required on all above ground metal surfaces	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740 Frazee Traffic Line and Marking Paint Yellow #5020301 (2 coats)
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE MORTAR, REPAIR	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength Valve Box Lids Prime Coat required on all above ground metal surfaces Fire Hydrants	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740 Frazee Traffic Line and Marking Paint Yellow #5020301 (2 coats) Frazee Aero Plate II, Bright Yellow
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE MORTAR, REPAIR PAINT	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength Valve Box Lids Prime Coat required on all above ground metal surfaces Fire Hydrants Prime Coat required on all above ground metal surfaces	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740 Frazee Traffic Line and Marking Paint Yellow #5020301 (2 coats) Frazee Aero Plate II, Bright Yellow #6480462 (2 coats)
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE MORTAR, REPAIR PAINT	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength Valve Box Lids Prime Coat required on all above ground metal surfaces Fire Hydrants Prime Coat required on all above ground metal surfaces Backflow Assys & Vent Pipes, Prime Coat required on all above	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740 Frazee Traffic Line and Marking Paint Yellow #5020301 (2 coats) Frazee Aero Plate II, Bright Yellow #6480462 (2 coats) Rust-Oleum No 7671 Dunes Tan (2
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE MORTAR, REPAIR PAINT PAINT	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength Valve Box Lids Prime Coat required on all above ground metal surfaces Fire Hydrants Prime Coat required on all above ground metal surfaces Backflow Assys & Vent Pipes, Prime Coat required on all above ground metal surfaces	Lid Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740 Frazee Traffic Line and Marking Paint Yellow #5020301 (2 coats) Frazee Aero Plate II, Bright Yellow #6480462 (2 coats) Rust-Oleum No 7671 Dunes Tan (2 coats)
METER BOX 2" SERVICE (Exposed to Traffic Loads & for Combination Air Release, Std Dwg W7) METER FLANGE MORTAR, REPAIR PAINT PAINT PAINT PAINT PAINT, PRIME COAT	Purple Lids for Recycled Water Use Bronze Meter Flanges for 1-1/2" and 2" Meters with Slotted Holes Two Component, Low Shrinkage, Cement Based with High Compressive and Bonding Strength Valve Box Lids Prime Coat required on all above ground metal surfaces Fire Hydrants Prime Coat required on all above ground metal surfaces Backflow Assys & Vent Pipes, Prime Coat required on all above	Ford CF Series Jones J129 A.Y.McDonald 610F Sika Sika Top 122, 123 STO CR 735, CR 740 Frazee Traffic Line and Marking Paint Yellow #5020301 (2 coats) Frazee Aero Plate II, Bright Yellow #6480462 (2 coats) Rust-Oleum No 7671 Dunes Tan (2

Item	Description	Manufacturer/Model
	1" Type K Soft Seamless rolled Tubing	Cerro
I II E, COI I EIX TOBIINO	Type Reduction ocal mess folice rubing	Halstead
	2" Type K Soft Seamless Straight Lengths	Lee
		Mueller
	1" and 2" Type K Rigid Seamless Straight Lengths	Phelps-Dodge
PIPE, DUCTILE IRON	For Water Lines 100mm (4") and larger manufactured per AWWA	American Pipe
	C111 C115, C150, C151.	Griffin
	Double Cement Mortar Lined	Pacific States
PIPE, PVC C900	For Water Lines 4" through 12" and 8" Gate Wells. AWWA C900	U.S. Pipe Certainteed
PIPE, PVC C900	Class 200 only.	Diamond Plastics
	Olass 200 orly.	IPEX
		JM Eagle
		North American Pipe
		Pacific Western
		VinylTech
PIPE, PVC C905	For Water Lines 16" and 20" through 36". AWWA C905 DR 25	Certainteed
	and DR 18	Diamond Plastics IPEX
		JM Eagle
		North American Pipe
		Pacific Western
		Vinyltech
PIPE, STEEL CEMENT	Steel Cylinder (CML/C), Per AWWA M11 and Section 15061. 1/4"	
MORTAR LINED AND	Minimum Wall Thickness.	
COATED (CML+C)	Steel Pipes Used for Recycled Water Installation are to be	
DI ACTIO	identified per District requirements. Submittal required.	
PLASTIC	12-mil Thick Polyethylene Encasement Sleeve for Ductile Iron	
ENCASEMENT	Pipe (DIP) per AWWA C105 and Recycled PVC, CMC/L, or DIP Non-Purple Water Pipe.	
	Clear Sleeve for Potable Water	
	Purple Color for Recycled Water	
PLASTIC WRAP	8-mil Thick Polyethylene Encasement for Buried Fittings and	
	Valves Double Wrap	
	Clear Sleeve for Potable Water	
	Purple Color for Recycled Water	
PRIMER, WAX TAPE	Surface Primer for Underground Application of Petrolatum Wax Tape	Carboline Denso Paste Trenton Tem-Coat
PROTECTOR POST,	4" Diameter, 0.250" Wall Galvanized A-120 Steel Pipe, Concrete	Tremon rem doar
STEEL	Filled	
SEALANT	Chemical Grout for Joint Sealing	3M Scotch Seal
SERVICE SADDLE FOR ACP AND DI PIPE	Cast Brass ASTM B62 Body with Silicone Bronze Double Straps,	Ford 202B Jones J-979
ACP AND DI PIPE	IP Outlet Sizes 25mm (1") and 50mm (2")	Smith-Blair 323
		Romac 202B
		Mueller BR2B
SERVICE SADDLE FOR	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IP	Ford202BS
PVC C900 PIPE	Thread Outlet for Sizes 1" and 2" for Pipe Sizes 4" through 12"	Jones J-969
		Smith-Blair 393
		Romac 202BS
0ED/40E 04DD4 E 50D	Drawn or Draw Coddle with Otologo Otol From Ball Co. (1) 15	Mueller BR2S
PVC C905 PIPE	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IP Thread Outlet for Sizes 1" and 2" for Pipe Sizes 16" and Larger.	Ford 202BS Jones J-969
VO OSOS FIFE	and 2 lor sizes i and 2 lor ripe sizes to and Larger.	Romac 202B
		Mueller BR2S
TAG, BRASS	1" Diameter, 18 Gauge Brass with 3/16" Die Stamped Letters and	Ford 202BS
IDENTIFICATION	Numbers, Suitable for Attachment to Cathodic Protection Wires by	Jones J-969
	means of a Nylon Zip Tie.	Romac 202N
TAPE, OUTER WRAP	Adhesive Plastic Outer Wrap for Wax Petrolatum Tape in	Polyken 960
TARE LITH ITV	Underground Applications 10 to 50 Mil x 2" Wide General Utility Tape for Corrosion	Trenton Polyply
TAPE, UTILITY	Protection of Above and Below Ground Pipes and Fittings	Calpico Northtown
	Tracection of Above and Delow Orbuna Files and Fittings	Polyken 900
		Scotchwrap
		3M 50, 51
TAPE, WARNING/	6" Wide, Warning/Identification (Non-Metallic) Marking Tape for	Calpico, Type 1
IDENTIFICATION	Buried Facilities with Continuous Warning "Caution Water Main	Line-Tec, Type B
	Buried Below" or "Caution Recycled Water Main Buried Below"	T.Christy Eng., Type 1
	Tape for Recycled Water shall be Purple	Terra Tape, Standard 250
		Thor, Elast Tec
<u> </u>	<u> </u>	Northtown

June 2009

Item	Description	Manufacturer/Model
TAPE WARNING/	3" Wide, Warning/Identification (Non-Metallic) Marking Tape for	Calpico, Type 1
IDENTIFICATION FOR	Buried Irrigation Pipelines. Purple Color with Continuous warning	Line-Tec, Type B
RECYCLED	"Caution Reclaimed Water Main Buried Below"	T.Christy Eng., Type 1
IRRIGATION		Terra Tape, Standard 250
		Thor, Elast Tec
		Northtown
TAPE, WAX	Petrolatum Saturated Synthetic Fabric Tape for use on	Trenton #1 Wax-Tape
ABOVEGROUND	Aboveground Couplings, Flanges, Fittings, etc.	
TAPE, WAX	Petrolatum Saturated Synthetic Fabric Tape for use on	Carboline Densyl Tape
UNDERGROUND	Underground Couplings, Flanges, Fittings, etc. Primer and Outer	Trenton #2 Wax-Tape
TAPPING SLEEVE FOR	Wrap Required. Fabricated Steel Tapping Sleeve for 4" through 12" Wet Taps.	Baker 428 Series
ACP, AND DIP	Epoxy Coated with Stainless Steel Bolts and Nuts	Ford FTSC
		Romac FTS-420
		Smith-Blair 622
TAPPING SLEEVE FOR	Fabricated Steel Tapping Sleeve for 4" through 12" Wet Taps.	Ford 'FAST' W/S.S. FLANGE
PVC (C900 -C905)	Epoxy Coated with Stainless Steel Bolts and Nuts	Romac SST W/S.S. FLANGE
		Mueller H304 w/S.S. FLANGE
VALVE STEM	Three Part Fiberglass Valve Extension Kit. Use when extension 8	Pipeline Products FPU-210,
EXTENSION,	foot or shorter.	FPT-200, FPL-220
FIBERGLASS	Douad as Course 4 4/01 Diameter Ot - 1 D - 1 M-11-1	Dinalina Draduata CV 000
VALVE STEM	Round or Square 1-1/2" Diameter Steel Rod, Welded	Pipeline Products SX-900 South Bay Foundry E4160
EXTENSION, STEEL	Construction, Hot Dipped galvanized with Top Centering Ring and AWWA 2" Operating Nuts Top and bottom. Use when extension	South Bay Foundry E4160
	longer than 8 foot.	
VALVE, BALL WITH	3/4"Bronze, Straight, FIP x Meter Swivel with Locking Tabs and	1" Ford B13-444w
LOCKING TABS	Purple Handle	1" Jones J1908
ECONING 171BC	T diplo Handio	2" Ford BF13-777W
		2" Jones J1913
VALVE, BUTTERFLY	18" and Larger, AWWA C504, Class B. Thermosetting or Fusion	M&H 1450, 4500
150 PSI	Bonded Epoxy coated and Lined. Class D or E Flange x Flange	Mueller Lineseal III
	Ends	Pratt Groundhog
VALVE, BUTTERFLY	18" and Larger, AWWA C504, Class B. Thermosetting or Fusion	M&H 1450, 4500 (Class 250)
250 PSI	Bonded Epoxy coated and Lined. Class D or E Flange x Flange	Mueller Lineseal XP 250
200 . 0.	Ends	Pratt Triton HP-250
VALVE, GATE,	4" through 16", non-rising Low Zinc Bronze or Stainless Steel	American FC, Series 2500
RESILIENT WEDGE	Stern, Ductile Body and Bonnet, encapsulated Wedge per AWWA	AVK 25
(RWGV)	C509 or C515 with Epoxy Coated Interior. Manufactured to	Clow F6100, F6100 Ductile
	AWWA C509 or C515, with 250 PSI Rating	Kennedy Ken-Seal ii, KRSR
		Mueller 2361
	*Ductile Iron Bodies and Bonnets are required	M&H 4067, 7067, A2361
		U.S. Pipe Metroseal &
VALVE PRESSURE		Metroseal 250
VALVE, PRESSURE RELIEF AND		Cla-Val
SUSTAINING		
	3/4" Through 2", Used as part of meter assembly and provided by	Jones 3/4" J-1098
150 PSI	CMWD	Jones 1" J-1908, 2" J-1913
1		Ford 3/4" B13-332W
		Ford 1" B13-444W
		Ford 2" B13-777W
VALVE BOX RECYCLED	Lid to be marked "Recycled Water", See Standard Dwg W13	South Bay Foundary SBF 1208-N
WATER VALVES		
VALVE BOX	For Gate Valves & Butterfly Valves, See Standard Dwg W13, Lids	Brooks Service 4TT J&R 4T
VALVE BOY	shall be marked "Water" Normally Close Valve, Lids shall be marked "Water"	Brooks Sarvica 3PT
VALVE BOX VALVE BOX	1" Blow Off or Manual Air Releases. See Standard Dwg W5,	Brooks Service 3RT Brooks Service 4TT J&R 4T
VALVE DOA	Lids shall be marked "Water"	DIOONS SELVICE 411 JOIN 41
VALVE BOX	2" Blow Off or Manual Air Release. See Standard Dwg W6	South Bay Foundary SBF 1243
	Lids shall be marked "Water"	
VALVE BOX	4" Blow Off Assembly. See Standard Dwg W11	South Bay Foundary SBF 1243 (for 4"
		Pipe Outlet) and Brooks 4TT or J&R 4T
		(for Valve)

APPENDIX "C"

CARLSBAD MUNICIPAL WATER DISTRICT'S APPROVED MATERIALS LIST FOR USE ON CONSTRUCTION OF POTABLE AND RECYCLED WATER FACILITIES

Item	Description	Manufacturer/Model
VALVE BOX	Air-Vaccum Valve Assembly. See Standard Dwg W7	Amorcast A600 1640 PC-12
	Valve Boxes Located in traffic shall use approved manufacturer's	w/#60001643*Service 5 Cover
	Traffic Rated Lids	Brooks 66 (2-piece lid)
		J&R No W6B (2-pice lid)